Sequence Listing

SEQ ID NO. 1

5   Q04984 and AAH23518
     Chaperonin 10

         1 magqafrkfl plfdrvlver saaetvtkgg imlpeksqgk vlqatvvavg sgskgkggei
        61 qpvsvkvgdk vllpeyggtk vvlddkdyfl frdgdilgky vd

10

     SEQ ID NO. 2

     NM_002157 and U07550
15   Human chaperonin 10 mRNA, complete cds

         1 gctacactag agcagagtac gagtctgagg cggagggagt aatggcagga caagcgttta
        61 gaaagtttct tccactcttt gaccgagtat tggttgaaag gagtgctgct gaaactgtaa
       121 ccaaaggagg cattatgctt ccagaaaaat ctcaaggaaa agtattgcaa gcaacagtag
20   181 tcgctgttgg atcgggttct aaaggaaagg gtggagagat tcaaccagtt agcgtgaaag
       241 ttggagataa agttcttctc ccagaatatg gaggcaccaa agtagttcta gatgacaagg
       301 attatttcct atttagagat ggtgacattc ttggaaagta cgtagactga aataagtcac
       361 tattgaaatg gcatcaacat gatgctgccc attccactga agttctgaaa tctttcgtca
       421 tgtaaataat ttccatattt ctctttttata ataaactaat gataactaat gacatccagt
25   481 gtctccaaaa ttgtttcctt gtactgatat aaacacttcc aaataaaaat atgtaaat

     SEQ ID NO. 3

30   P05109
     Calgranulin A

         1 mltelekaln siidvyhkys likgnfhavy rddlkkllet ecpqyirkkg advwfkeldi
        61 ntdgavnfqe flilvikmgv aahkkshees hke
35

     SEQ ID NO. 4

     A12027
40   Macrophage migration inhibition factor (MRP-14)cDNA from Human
     placenta (formula v)

         1 cttgggttgc ttccacctt tggctcttgt aaataatgct gctatgaaca tgaatgtaca
        61 aacatctgtt tgaatccctg cattcaattc ttttgcatat atacccagga gcagaatgat
45   121 ggatcatatg gtaattctgt gtttatttat ttgaggaaca aacttgccgt tttccataac
       181 agctgcacta ttttacattc ccactaacag tgcattaggc ttccaattct ctatgccctc
       241 accaacactt gttttctggg ttttaaaaga gtagtagtc atccttgtag gtgtcaggtg
       301 gtatctcatt gtcgtttgc ttcatgtttt cctaaagatt agtaattttc atatgcttat
       361 tgaccatttg tatatcttct tcggagaagt gtctatttga gtctttcccc aattttgatt
50   421 ggtttgtttg ttttttgttg ttgagttgta gggattcttt tatattctgg atattaatcc
       481 cttatcagat atttgtttta caaatatttt ctttgtaaca acagaaacac accacagtct
       541 tcaaggttgg aagccagtta atctgagtag cattttgtta gtggtggga gaggatttgt
       601 tcctcctgaa atcctgggga attggccacc tcctcttctc ctcttaggca tgaagcgcgt
       661 ctggcttctc caaagaactc ttcccctcca ctacctcaga gttagcttcc tctcttcagc
55   721 cagtgatcct ggggtcccag acacaataat taaccaagag agggtgaaag ctccctgct

SUBSTITUTE SHEET (RULE 26)

- 2 -

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      781 gtgtttatgc aatggctcag gcccttgtga agtgccgagg gaccccaagc agcctccatc
      841 tcccagggca tggtccatcc ccagctttca cagaacagga aagctgtgga ggagtgtggg
      901 cagcagggta ggaatggata tagcccttgg caacaacaca tttccccaca aagcacccac
      961 ccaaaagaac aacaacgata gttttagttt ttagtaatga gaacaatagt tctcatgact
     1021 aaaagccatc agccaggaca ctgttctcaa cccttttgcg gtctttggac cctttgaaac
     1081 tctgacagaa gccatggagg aatgttctca ctgagtgcat gcactcaaaa tgatgcattc
     1141 aacttcaatt cagtttcagg gatgtatggc ctgaccacca atgcaggga ttagcaatcg
     1201 caatagtgga gagggcatgg gagtgggaat ctggctggat caagcaagtg gatgccagca
     1261 gcccagaaaa agagcccccc tacctgcttt ttccttcctg ggcactattg cccagcaaat
     1321 gccttcctct ttccgcttct cctacctccc cacccaaaat tttcattctg cacagtgatt
     1381 gccacattca ctggttgaga aacagagact gtagcaactc tggcagggag aagctgtctc
     1441 tgatggcctg aagctgtggg cagctggcca agcctaaccg ctataaaaag gagctgcctc
     1501 tcagccctgc atgtctcttg tcagctgtct ttcagaagac ctggtaagtg ggactgtctg
     1561 ggttggcccc gcactttggg cttctcttgg ggagggtcag ggaagtggag cagccttcct
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     2521 tacctgcaga ataataaagt catcaatacc tcatgcctct ctcttatgct tttgtggaat
     2581 gaggttcctc ggtgtggagg gagggttgga aaacccaaag gaagaaaaag aaatctatgt
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     2701 cattccttca gcccctcatt tcgagcattg gatttgaggc ttaaggattc aaaaagtcgt
     2761 catgaatata gctgatgatt ttatagtggt tctgaaatgg gtcggggatt gggaacagg
     2821 gtggtagtat aagaacaact gatactgttc tctaagctaa atcttagctt ccagctacct
     2881 gtcttagatg tggctcttgg gaaccttaga gtgatagcta catagaagtg tgtgggtgtg
     2941 tgtgtgtgtg tctgtgtgtg tgtgtgtgag agagagacag acagaaagag agcaagagag
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     3061 ctccattaac aggataatcc tcacacctgt ccacatacct gtagtttgtc cttggggatt
     3121 ttgaaaattt ttcctccctc tccactccca aactcccaac tcaattaaat gataaaggaa
     3181 taggcaaata ggaaaataaa ttagtaaaac ttaagtcaaa gaataggtta ttcatacgct
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     3301 ggtacaaggg aggccagaag acgagtggtt cttctctgag gtggacatta aaaaaagaag
     3361 aaaatgaagg ggaacctttt gacaagaatg tcaccccaaa ctggattttc atgctgtggt
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     3541 tctctgaaat tgggttgaag ttgtgtgcat cattttgagt gacgcactga gaacattcct
     3601 ccacggcttc catcgagagt ctcgaaaagg cccaacacct caaaaaggtt aagaacactt
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     3781 gcatgatcat gggctcactg tagcctcgaa cacctgggct caagtaatcc tcccacctca
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     3961 agcgatcctc ctaccttggc ctcccaaagt gctgagatta cagtgtgatc cacaccacac
     4021 ctggccaaag attggagtat ttttattgct attgttgtgc tgggtgggtg ggtgggtgta
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- 3 -

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4081 tgctttgtgg ggacgtgtgt tgttgccaag ggctaaatca gttcctaccc tgctgcccac
4141 agtcctccac agctttcctg ctctgtgaag ctaaggatac accccgatga taagctgtca
4201 acata
```

SEQ ID NO. 5

NM_002964
Homo sapiens S100 calcium binding protein A8 (calgranulin A) S100A8, mRNA

```
  1 atgtctcttg tcagctgtct ttcagaagac ctggtggggc aagtccgtgg gcatcatgtt
 61 gaccgagctg gagaaagcct tgaactctat catcgacgtc taccacaagt actccctgat
121 aaaggggaat ttccatgccg tctacaggga tgacctgaag aaattgctag agaccgagtg
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241 tgatggtgca gttaacttcc aggagttcct cattctggtg ataaagatgg gcgtggcagc
301 ccacaaaaaa agccatgaag aaagccacaa agagtagctg agttactggg cccagaggct
361 gggcccctgg acatgtacct gcagaataat aaagtcatca atacctcaaa aaaaaaaaaa
421 aaaaaaaa
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SEQ ID NO. 6

P06702
Calgranulin B/MRP-14

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  1 mtckmsqler nietiintfh qysvklghpd tlnqgefkel vrkdlqnflk kenknekvie
 61 himedldtna dkqlsfeefi mlmarltwas hekmhegdeg pghhhkpglg egtp
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SEQ ID NO. 7

X06233
Human mRNA for calcium-binding protein in macrophages (MRP-14)
macrophage migration inhibitory factor (MIF)-related protein

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aaaacactct gtgtggctcc tcggctttga cagagtgcaa gacgatgact tgcaaaatgt
cgcagctgga acgcaacata gagaccatca tcaacacctt ccaccaatac tctgtgaagc
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taacctgggc ctcccacgag aagatgcacg agggtgacga gggccctggc caccaccata
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gccacggcca cagtcatggt ggccacggcc acagccaccc at
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SEQ ID NO. 8

M21064
Human migration inhibitory factor-related protein 14 (MRP14) gene,
complete cds

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  1 atcactgtgg agtaggggaa gggcactcct ggggtggcaa ggtgggaggt gggccctgtg
 61 ttcccacagt gggcagggag gtagtgaaag ggaagctggc cggacaggaa gggccattcc
121 aagagggctt tgtgcgcagg gctaagccaa gctttctcca taggcaatgg ggagcaactg
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SUBSTITUTE SHEET (RULE 26)

- 4 -

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  301 gagagatgct agaaacatat tcgccctgag gctctctcac tcagactgca agaggaaggt
  361 atcatcagaa ttgcccttaa ccaggaacca gaatagctgg gtcccccttcc tgccaagtca
  421 gcaaccagct atgtgacctt gctcaggtcc atctccgggt gtcagtttct tcatctacaa
  481 tgcaagaggg ttgcccacct ctgagaaccc ttctaacccc aaatctcacc ctatgaatct
  541 aagaacacaa ccctcgcca tcctaagtat cacagagcca ggcaagcatg ggtgagagct
  601 cagaccatcc ttgttggact aaaaggaagg ggcagactgc catggggggc agccgagagg
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  721 tgccagagga gcagcaggct cgctcgggga gagtagggcc ttaggataga agggaaatga
  781 actaaacaac cagcttcctg caaaccagtt tcaggccagg gctgggaatt tcacaaaaaa
  841 gcagaaggcg ctctgtgaac atttcctgcc ccgccccagc ccccttcctg gcagcattag
  901 cacactgctc acctgtgaag caatcttccg gagacagggc caaagggcaa gtgccccagt
  961 caggagctgc ctataaatgc cgagcctgca cagctctggc aaacactctg tgtggctcct
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4201 cacagccctc tctctctcct aacagaattc tattcctctg aaagtcttca gaaactggac
4261 ctagatagtg ccatgtctgg ggaggaatat ggcaccaggc agtggaaaca aggacagatc
4321 ggtgtgttat ctcacatttg atcagagagc atgatctctc ttaacagacc tgccacccta
4381 atcaacggga gtgctcacac aagtgggagt ctgagagctt agccctatgc ccaccctgg
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SEQ ID NO. 9

P01833 and Q81ZY7
Polymeric-immunoglobulin receptor (precursor)

```
  1 mllfvltcll avfpaistks pifgpeevns vegnsvsitc yypptsvnrh trkywcrqga
 61 rggcitliss egyvsskyag ranltnfpen gtfvvniaql sqddsgrykc glginsrgls
121 fdvslevsqg pgllndtkvy tvdlgrtvti ncpfktenaq krkslykqig lypvlvidss
181 gyvnpnytgr irldiqgtgq llfsvvinql rlsdagqylc qagddsnsnk knadlqvlkp
241 epelvyedlr gsvtfhcalg pevanvakfl crqssgencd vvvntlgkra pafegrilln
301 pqdkdgsfsv vitglrkeda grylcgahsd gqlqegspiq awqlfvnees tiprsptvvk
361 gvagssvavl cpynrkesks ikywclwega qngrcpllvd segwvkaqye grlslleepg
421 ngtftvilnq ltsrdagfyw cltngdtlwr ttveikiieg epnlkvpgnv tavlgetlkv
481 pchfpckfss yekywckwnn tgcqalpsqd egpskafvnc densrlvslt lnlvtradeg
541 wywcgvkqgh fygetaavyv aveerkaags rdvslakada apdekvldsg freienkaiq
601 dprlfaeeka vadtrdqadg srasvdsgss eeqggssral vstlvplglv lavgavavgv
661 ararhrknvd rvsirsyrtd ismsdfensr efgandnmga ssitqetslg gkeefvatte
721 sttetkepkk akrsskeeae maykdfllqs stvaaeaqdg pqea
```

SEQ ID NO. 10

NM_002644
Homo sapiens polymeric immunoglobulin receptor (PIGR), mRNA

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  1 agagtttcag ttttggcagc agcgtccagt gccctgccag tagctcctag agaggcaggg
 61 gttaccaact ggccagcagg ctgtgtccct gaagtcagat caacgggaga gaaggaagtg
121 gctaaaacat tgcacaggag aagtcggcct gagtggtgcg cgctcgggga cccaccagca
181 atgctgctct tcgtgctcac ctgcctgctg cgggtcttcc agccatctc acgaagagt
241 cccatatttg gtcccgagga ggtgaatagt gtggaaggta actcagtgtc catcacgtgc
301 tactacccac ccacctctgt caaccggcac acccggaagt actggtccg gcagggagct
361 agaggtggct gcataaccct catctcctcg gagggctacg tctccagcaa atatgcaggc
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601 acagtggacc tgggcagaac ggtgaccatc aactgccctt tcaagactga gaatgctcaa
661 aagaggaagt ccttgtacaa gcagataggc ctgtaccctg tgctggtcat cgactccagt
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SUBSTITUTE SHEET (RULE 26)

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 781  ttactgttca gcgttgtcat caaccaactc aggctcagcg atgctgggca gtatctctgc
 841  caggctgggg atgattccaa tagtaataag aagaatgctg acctccaagt gctaaagccc
 901  gagcccgagc tggtttatga agacctgagg ggctcagtga ccttccactg tgccctgggc
 961  cctgaggtgg caaacgtggc caaatttctg tgccgacaga gcagtgggga aaactgtgac
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1141  gggcgctacc tgtgtggagc ccattcggat ggtcagctgc aggaaggctc gcctatccag
1201  gcctggcaac tcttcgtcaa tgaggagtcc acgattcccc gcagcccac tgtggtgaag
1261  ggggtggcag gaggctctgt ggccgtgctc tgcccctaca accgtaagga aagcaaaagc
1321  atcaagtact ggtgtctctg ggaaggggcc cagaatggcc gctgcccct gctggtggac
1381  agcgagggGt gggttaaggc ccagtacgag ggccgcctct ccctgctgga ggagccaggc
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1501  tgtctgacca acggcgatac tctctggagg accaccgtgg agatcaagat tatcgaagga
1561  gaaccaaacc tcaaggtacc agggaatgtc acggctgtgc tgggagagac tctcaaggtc
1621  ccctgtcact ttccatgcaa attctcctcg tacgagaaat actggtgcaa gtggaataac
1681  acgggctgcc aggccctgcc cagccaagac gaaggcccca gcaaggcctt cgtgaactgt
1741  gacgagaaca gccggcttgt ctccctgacc ctgaacctgg tgaccagggc tgatgagggc
1801  tggtactggt gtggagtgaa gcagggccac ttctatggag agactgcagc cgtctatgtg
1861  gcagttgaag agaggaaggc agcggggtcc cgcgatgtca gcctagcgaa ggcagacgct
1921  gctcctgatg agaaggtgct agactctggt tttcgggaga ttgagaacaa agccattcag
1981  gatcccaggc tttttgcaga ggaaaaggcg gtggcagata caagagatca agccgatggg
2041  agcagagcat ctgtggattc cggcagctct gaggaacaag gtggaagctc cagagcgctg
2101  gtctccaccc tggtgcccct gggcctggtg ctggcagtgg agccgtggc tgtgggggtg
2161  gccagagccc ggcacaggaa gaacgtcgac cgagtttcaa tcagaagcta caggacagac
2221  attagcatgt cagacttcga gaactccagg gaatttggag ccaatgacaa catgggagcc
2281  tcttcgatca ctcaggagac atccctcgga ggaaaagaag agttgttgc caccactgag
2341  agcaccacag agaccaaaga acccaagaag gcaaaaggt catccaagga ggaagccgag
2401  atggcctaca aagacttcct gctccagtcc agcaccgtgg ccgccgaggc ccaggacggc
2461  ccccaggaag cctagacggt gtcgccgcct gctccctgca cccatgacaa tcaccttcag
2521  aatcatgtcg atcctggggc cctcagctcc tggggacccc actccctgct ctaacacctg
2581  cctaggtttt tcctactgtc ctcagaggcg tgctggtccc ctcctcagtg acatcaaagc
2641  ctggcctaat tgttcctatt ggggatgagg gtggcatgag gaggtcccac ttgcaacttc
2701  tttctgttga gagaacctca ggtacggaga agaatagagg tcctcatggg tcccttgaag
2761  gaagagggac cagggtggga gagctgattg cagaaaggag agacgtgcag cgcccctctg
2821  cacccttatc atgggatgtc aacagaattt ttccctccac tccatccctc cctccgtcc
2881  ttcccctctt cttctttcct tccatcaaaa gatgtatttg aattcatact agaattcagg
2941  tgctttgcta gatgctgtga caggtatgcc accaacactg ctcacagcct ttctgaggac
3001  accagtgaaa gaagccacag ctcttcttgg cgtatttata ctcactgagt cttaactttt
3061  caccagggt gctcacctct gccctattg ggagaggtca taaaatgtct cgagtcctaa
3121  ggccttaggg gtcatgtatg atgagcatac acacaggtaa ttataaaccc acattcttac
3181  catttcacac ataagaaaat tgaggtttgg aagagtgaag cgttttttct tttctttttt
3241  ttttttgaga cggagtctct cactgtcgcc caggctggag tgcagtggcg caatctcggc
3301  tcactgcaac ctccgcctcc caggttgaca ccattctcct gcctcaccct cccaagtagc
3361  tgggactaca ggcgcctgcc agcacgcctg gctaattttt tgtattttta gtagagacag
3421  ggtttcaccg tgttagccag gatggtctcg atctcctgac ctcgtgatcc gcctgcctct
3481  gcctcccaaa gtgctgggat tacaggcgtg agccaccgcg tccggcctct ttttttcttt
3541  tctttttttt gagacaaagt ctcactgtgt cacccagact ggaatgcagt gacacaatct
3601  cggctcactg aaacctctgc cttccaggtt caagctattc tcatgcctca gcctctcaag
3661  tagctgggac tacagatgtg gccaccatg tctggctaat ttttttttt tttttttttt
3721  tttgtagaga cagggtttcg ccatgttgac gagactggtc tcgaactcct ggcctcaagt
3781  gatctgccgc ctcagcttct caaagtactg ggattatata ggcatgagcc actgagcctg
3841  gccctgaagc gtttttctca aaggccctca gtgagataaa ttagatttgg catctcctgt
3901  cctgggccag ggatctctct acaagagccc ctgcccctct gttggaggca cagtttttaga
3961  ataaggagga ggagggagaa gagaaaatgt aaaggaggga gatctttccc aggccgcacc
```

-7-

```
4021 atttctgtca ctcacatgga cccaagataa aagaatggcc aaaccctcac aaccccctgat
4081 gtttgaagag ttccaagttg aagggaaaca aagaagtgtt tgatggtgcc agagaggggc
4141 tgctctccag aaagctaaaa tttaatttct tttttcctct gagttctgta cttcaaccag
4201 cctacaagct ggcacttgct aacaaatcag aaatatgaca attaatgatt aaagactgtg
4261 attgcc
```

SEQ ID NO. 11

P30086 - Homo sapiens
Phosphatidylethanolamine binding protein (PEBP)

```
  1 mpvdlskwsg plslqevdeq pqhplhvtya gaavdelgkv ltptqvknrp tsiswdglds
 61 gklytlvltd pdapsrkdpk yrewhhflvv nmkgndissg tvlsdyvgsg ppkgtglhry
121 vwlvyeqdrp lkcdepilsn rsgdhrgkfk vasfrkkyel rapvagtcyq aewddyvpkl
181 yeqlsgk
```

SEQ ID NO. 12

NM_002567
Homo sapiens prostatic binding protein (PBP), mRNA

```
   1 tgggcggcgg ctgaggcgcg tgctctcgcg tggtcgctgg gtctgcgtct tcccgagcca
  61 gtgtgctgag ctctccgcgt cgcctctgtc gcccgcgcct ggcctaccgc ggcactcccg
 121 gctgcacgct ctgcttggcc tcgccatgcc ggtggacctc agcaagtggt ccgggcccct
 181 gagcctgcaa gaagtggacg agcagccgca gcaccgctg catgtcacct acgccggggc
 241 ggcggtggac gagctgggca aagtgctgac gcccacccag gttaagaata gacccaccag
 301 catttcgtgg gatggtcttg attcagggaa gctctacacc ttggtcctga cagacccgga
 361 tgctcccagc aggaaggatc ccaaatacag agaatggcat catttcctgg tggtcaacat
 421 gaagggcaat gacatcagca gtggcacagt cctctccgat tatgtgggct cggggcctcc
 481 caagggcaca ggcctccacc gctatgtctg ctggtttac gagcaggaca ggccgctaaa
 541 gtgtgacgag cccatcctca gcaaccgatc tggagaccac cgtggcaaat tcaaggtggc
 601 gtccttccgt aaaaagtatg agctcagggc cccggtggct ggcacgtgtt accaggccga
 661 gtgggatgac tatgtgccca aactgtacga gcagctgtct gggaagtagg gggttagctt
 721 ggggacctga actgtcctgg aggccccaag ccatgttccc cagttcagtg ttgcatgtat
 781 aatagatttc tcctcttcct gccccccttg gcatgggtga cctgacca gtcagatggt
 841 agttgagggt gactttcct gctgcctggc ctttataatt ttactcactc actctgattt
 901 atgttttgat caaatttgaa cttcattttg gggggtattt tggtactgtg atggggtcat
 961 caaattatta atctgaaaat agcaacccag aatgtaaaaa agaaaaaact ggggggaaaa
1021 agaccaggtc tacagtgata gagcaaagca tcaaagaatc tttaagggag gtttaaaaaa
1081 aaaaaaaaaa aaaagattg gttgcctctg cctttgtgat cctgagtcca gaatggtaca
1141 caatgtgatt ttatggtgat gtcactcacc tagacaacca gaggctggca ttgaggctaa
1201 cctccaacac agtgcatctc agatgcctca gtaggcatca gtatgtcact ctggtccctt
1261 taaagagcaa tcctggaaga agcaggaggg agggtggctt tgctgttgtt gggacatggc
1321 aatctagacc ggtagcagcg ctcgctgaca gcttgggagg aaacctgaga tctgtgtttt
1381 ttaaattgat cgttcttcat gggggtaaga aaagctggtc tggagttgct gaatgttgca
1441 ttaattgtgc tgtttgcttg tagttgaata aaatagaaa cctgaatgaa gaaaaaaaaa
1501 aaaaaaa
```

SEQ ID NO. 13

P39687 - Homo sapiens
Acidic leucine-rich nuclear phosphoprotein 32 family member A

- 8 -

```
  1 memgrrihle  lrnrtpsdvk  elvldnsrsn  egklegltde  feeleflsti  nvgltsianl
 61 pklnklkkle  lsdnrvsggl  evlaekcpnl  thlnlsgnki  kdlstieplk  klenlksldl
121 fncevtnlnd  yrenvfkllp  qltyldgydr  ddkeapdsda  egyvegldde  eededeeeyd
181 edaqvvedee  dedeeeegee  edvsgeeeed  eegyndgevd  deedeeelge  eergqkrkre
241 pedegeddd .
```

SEQ ID NO. 14

NM_006305
Homo sapiens acidic (leucine-rich) nuclear phosphoprotein 32
family, member A (ANP32A), mRNA

```
   1 cgggtgctgg  gggctcgaga  accgagcgga  gctggttgag  ccttcaaagt  cctaaaacgc
  61 gcggccgtgg  gttcggggtt  tattgattga  attccgccgg  cgcgggagcc  tctgcagaga
 121 gagagcgcga  gagatggaga  tgggcagacg  gattcattta  gagctgcgga  acaggacgcc
 181 ctctgatgtg  aaagaacttg  tcctggacaa  cagtcggtcg  aatgaaggca  aactcgaagg
 241 cctcacagat  gaatttgaag  aactggaatt  cttaagtaca  atcaacgtag  gcctcacctc
 301 aatcgcaaac  ttaccaaagt  taaacaaact  taagaagctt  gaactaagcg  ataacagagt
 361 ctcagggggc  ctggaagtat  tggcagaaaa  gtgtccgaac  ctcacgcatc  taaatttaag
 421 tggcaacaaa  attaaagacc  tcagcacaat  agagccactg  aaaaagttag  aaaacctcaa
 481 gagcttagac  cttttcaatt  gcgaggtaac  caacctgaac  gactaccgag  aaaatgtgtt
 541 caagctcctc  ccgcaactca  catatctcga  cggctatgac  cgggacgaca  aggaggcccc
 601 tgactcggat  gctgagggct  acgtggaggg  cctggatgat  gaggaggagg  atgaggatga
 661 ggaggagtat  gatgaagatg  ctcaggtagt  ggaagacgag  gaggacgagg  atgaggagga
 721 ggaaggtgaa  gaggaggacg  tgagtggaga  ggaggaggag  gatgaagaag  gttataacga
 781 tggagaggta  gatgacgagg  aagatgaaga  agagcttggt  gaagaagaaa  ggggtcagaa
 841 gcgaaaacga  gaacctgaag  atgagggaga  agatgatgac  taagtggaat  aacctatttt
 901 gaaaaattcc  tattgtgatt  tgactgtttt  tacccatatc  ccctctcccc  cccccctcca
 961 atcctgcccc  ctgaaactta  tttttttctg  attgtaacgt  tgctgtggga  acgagagggg
1021 aagagtgtac  tgggggttgc  ggggggaggg  atggcgggtg  ggggtggaat  aaaatactat
1081 ttttactgcc  actctttaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaa
```

SEQ ID NO. 15

P17066 - Homo sapiens
Heat shock 70kDa protein

```
  1 mqaprelavg  idlgttyscv  gvfqqgrvei  landqgnrtt  psyvaftdte  rlvgdaaksq
 61 aalnphntvf  dakrligrkf  adttvqsdmk  hwpfrvvseg  gkpkvrvcyr  gedktfypee
121 issmvlskmk  etaeaylgqp  vkhavitvpa  yfndsqrqat  kdagaiagln  vlriinepta
181 aaiaygldrr  gagernvlif  dlgggtfdvs  vlsidagvfe  vkatagdthl  ggedfdnrlv
241 nhfmeefrrk  hgkdlsgnkr  alrrlrtace  rakrtlssst  qatleidslf  egvdfytsit
301 rarfeelcsd  lfrstlepve  kalrdakldk  aqihdvvlvg  gstripkvqk  llqdffngke
361 lnksinpdea  vaygaavqaa  vlmgdkcekv  qdlllldvap  lslgletagg  vmttliqrna
421 tiptkqtqtf  ttysdnqpgv  fiqvyegera  mtkdnnllgr  felsgippap  rgvpqievtf
481 didangilsv  tatdrstgka  nkititndkg  rlskeeverm  vheaeqykae  deaqrdrvaa
541 knsleahvfh  vkgslqeesl  rdkipeedrr  kmqdkcrevl  awlehnqlae  keeyehqkre
601 leqicrpifs  rlyggpgvpg  gsscgtqarq  gdpstgpiie  evd
```

SEQ ID NO. 16

SUBSTITUTE SHEET (RULE 26)

NM_002155
Homo sapiens heat shock 70kDa protein 6 (HSP70B') (HSPA6), mRNA.

```
   1 agagccagcc cggaggagct agaaccttcc ccgcatttct ttcagcagcc tgagtcagag
  61 gcgggctggc ctggcgtagc cgcccagcct cgcggctcat gccccgatct gcccgaacct
 121 tctcccgggg tcagcgccgc gccgcgccac ccggctgagt cagcccgggc gggcgagagg
 181 ctctcaactg ggcgggaagg tgcgggaagg tgcggaaagg ttcgcgaaag ttcgcggcgg
 241 cgggggtcgg gtgaggcgca aaaggataaa aagcccgtgg aagcggagct gagcagatcc
 301 gagccgggct ggctgcagag aaaccgcagg gagagcctca ctgctgagcg cccctcgacg
 361 gcggagcggc agcagcctcc gtggcctcca gcatccgaca agaagcttca gccatgcagg
 421 ccccacggga gctcgcggtg ggcatcgacc tgggcaccac ctactcgtgc gtgggcgtgt
 481 ttcagcaggg ccgcgtggag atcctggcca acgaccaggg caaccgcacc acgcccagct
 541 acgtggcctt caccgacacc gagcggctgg tcgggacgc ggccaagagc caggcggccc
 601 tgaacccca caacaccgtg ttcgatgcca agcggctgat cgggcgcaag ttcgcggaca
 661 ccacggtgca gtcggacatg aagcactggc ccttccgggt ggtgagcgag ggcggcaagc
 721 ccaaggtgcg cgtatgctac cgcgggggag acaagacgtt ctaccccgag gagatctcgt
 781 ccatggtgct gagcaagatg aaggagacgg ccgaggcgta cctgggccag cccgtgaagc
 841 acgcagtgat caccgtgccc gcctatttca tgactcgca gcgccaggcc accaaggacg
 901 cggggggcat cgcgggggctc aacgtgttgc ggatcatcaa tgagcccacg gcagctgcca
 961 tcgcctatgg gctggaccgg cggggcgcgg gagagcgcaa cgtgctcatt tttgacctgg
1021 gtggggggcac cttcgatgtg tcggttctct ccattgacgc tggtgtcttt gaggtgaaag
1081 ccactgctgg agatacccac ctgggaggag aggacttcga caaccggctc gtgaaccact
1141 tcatggaaga attccggcgg aagcatggga aggacctgag cgggaacaag cgtgccctgc
1201 gcaggctgcg cacagcctgt gagcgcgcca agcgcaccct gtcctccagc acccaggcca
1261 ccctggagat agactccctg ttcgagggcg tggacttcta cacgtccatc actcgtgccc
1321 gctttgagga actgtgctca gacctcttcc gcagcaccct ggagccggtg gagaaggccc
1381 tgcgggatgc caagctggac aaggcccaga ttcatgacgt cgtcctggtg gggggctcca
1441 ctcgcatccc caaggtgcag aagttgctgc aggacttctt caacggcaag gagctgaaca
1501 agagcatcaa ccctgatgag gctgtggcct atgggctgc tgtgcaggcg gccgtgttga
1561 tggggggacaa atgtgagaaa gtgcaggatc tcctgctgct ggatgtggct cccctgtctc
1621 tggggctgga gacagcaggt ggggtgatga ccacgctgat ccagaggaac gccactatcc
1681 ccaccaagca gacccagact ttcaccacct actcggacaa ccagcctggg gtcttcatcc
1741 aggtgtatga gggtgagagg gccatgacca aggacaacaa cctgctgggg cgttttgaac
1801 tcagtggcat ccctcctgcc ccacgtggag tccccagat agaggtgacc tttgacattg
1861 atgctaatgg catcctgagc gtgacagcca ctgacaggag cacaggtaag gctaacaaga
1921 tcaccatcac caatgacaag ggccggctga gcaaggagga ggtggagagg atggttcatg
1981 aagccgagca gtacaaggct gaggatgagg cccagaggga cagagtggct gccaaaaact
2041 cgctggaggc ccatgtcttc catgtgaaag gttctttgca agaggaaagc cttagggaca
2101 agattcccga agaggacagg cgcaaaatgc aagacaagtg tcgggaagtc cttgcctggc
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2221 aaatctgtcg ccccatcttc tccaggctct atggggggcc tggtgtccct gggggcagca
2281 gttgtggcac tcaagcccgc caggggggacc ccagcaccgg ccccatcatt gaggaggttg
2341 attgaatggc ccttcgtgat aagtcagctg tgactgtcag ggctatgcta tgggccttct
2401 agactgtctt ctatgatcct gcccttcaga gatgaacttt ccctccaaag ctagaacttt
2461 cttcccagga taactgaagt cttttgactt tttgggggga gggcggttca tcctcttctg
2521 cttcaaataa aaagtcatta atttattaaa acttgtgtgg cactttaaca ttgctttcac
2581 ctatattttg tgtactttgt tacttgcatg tatgaatttt gttatgtaaa atatagttat
2641 agacctaaat aaaaaaaaaa aaaa
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SEQ ID NO. 17

X51757
Human heat-shock protein HSP70B gene

```
   1 cccgggcggg cgagaggctc tcaactgggc gggaaggtgc gggaaggtgc ggaaaggttc
  61 gcgaaagttc gcggcggcgg gggtcgggtg aggcgcaaaa ggataaaaag cccgtggaag
 121 cggagctgag cagatccgag ccgggctggc tgcagagaca ccgcagggag agcctcactg
 181 ctgagcgccc ctcgacggcg gacgggcagc agcctccgtg gcctccagca tccgacaaga
 241 agcttcagcc atgcaggccc cacgggagct cgcggtgggc atcgacctgg gcaccaccta
 301 ctcgtgcgtg ggcgtgtttc agcagggccg cgtggagatc ctggccaacg accagggcaa
 361 ccgcaccacg cccagctacg tggccttcac cgacaccgag cggctggtcg gggacgcggc
 421 caagagccag gcggccctga accccacaa caccgtgttc gatgccaagc ggctgatcgg
 481 gcgcaagttc gcggacacca cggtgcagtc ggacatgaag cactggccct tccgggtggt
 541 gagcgagggc ggcaagccca aggtgccggt atcgtaccgc ggggaggaca agacgttcta
 601 ccccgaggag atctcgtcca tggtgctgag caagatgaag gagacggccg aggcgtacct
 661 gggccagccc gtgaagcacg cagtgatcac cgtgcccgcc tatttcaatg actcgcagcg
 721 ccaggccacc aaggacgcgg gggccatcgc ggggctcaac gtgttgcgga tcatcaatga
 781 gcccacggca gctgccatcg cctatgggct ggaccggcgg ggcgcgggag agcgcaacgt
 841 gctcattttt gacctgggtg ggggcacctt cgatgtgtcg gttctctcca ttgacgctgg
 901 tgtctttgag gtgaaagcca ctgctggaga tacccacctg ggaggagagg acttcgacaa
 961 ccggctcgtg aaccacttca tggaagaatt ccggcggaag catgggaagg acctgagcgg
1021 gaacaagcgt gccctcggca ggctgcgcac agcctgtgag cgcgccaagc gcaccctgtc
1081 ctccagcacc caggccaccc tggagataga ctccctgttc gagggcgtgg acttctacac
1141 gtccatcact cgtgcccgct ttgaggaact gtgctcagac ctcttccgca gcaccctgga
1201 gccggtggag aaggccctgc gggatgccaa gctggacaag gcccagattc atgacgtcgt
1261 cctggtgggg ggctccactc gcatccccaa ggtgcagaag ttgctgcagg acttcttcaa
1321 cggcaaggag ctgaacaaga gcatcaaccc tgatgaggct gtggcctatg gggctgctgt
1381 gcaggcggcc gtgttgatgg gggacaaatg tgagaaagtg caggatctcc tgctgctgga
1441 tgtggctccc ctgtctctgg ggctggagac agcaggtggg gtgatgacca cgctgatcca
1501 gaggaacgcc actatccccaa ccaagcagac ccagactttc accacctact cggacaacca
1561 gcctggggtc ttcatccagg tgtatgaggg tgagagggcc atgaccaagg acaacaacct
1621 gctggggcgt tttgaactca gtggcatccc tcctgcccca cgtggagtcc cccagataga
1681 ggtgaccttt gacattgatg ctaatggcat cctgagcgtg acagccactg acaggagcac
1741 aggtaaggct aacaagatca ccatcaccaa tgacaagggc cggctgagca aggaggaggt
1801 ggagaggatg gttcatgaag ccgagcagta caaggctgag gatgaggccc agagggacag
1861 agtggctgcc aaaaactcgc tggaggccca tgtcttccat gtgaaaggtt ctttgcaaga
1921 ggaaagcctt agggacaaga ttcccgaaga ggacaggcgc aaaatgcaag acaagtgtcg
1981 ggaagtcctt gcctggctgg agcacaacca gctggcagag aaggaggagt atgagcatca
2041 gaagagggag ctggagcaaa tctgtcgccc catcttctcc aggctctatg gggggcctgg
2101 tgtccctggg ggcagcagtt gtggcactca gcccgccag ggggaccccca gcaccggccc
2161 catcattgag gaggttgatt gaatggccct tcgtgataag tcagctgtga ctgtcagggc
2221 tatgctatgg gccttctaga ctgtcttcta tgatcctgcc cttcagagat gaactttccc
2281 tccaaagcta gaactttctt cccaggataa ctgaagtctt ttgacttttt gcggggaggg
2341 cggttcatcc tcttctgctt caaataaaaa gtcattaatt tattaaaact tgtgtggcac
2401 tttaacattg ctttcaccta tattttgtgt actttgttac ttgcatgtat gaattttgtt
2461 atgtaaaata tagttataga cctaaataag ct
```

SEQ ID NO. 18

P14174
macrophage migration inhibitory factor - Homo Sapiens

```
   1 mpmfivntnv prasvpdgfl seltqqlaqa tgkppqyiav hvvpdqlmaf ggssepcalc
  61 slhsigkigg aqnrsyskll cgllaerlri spdrvyinyy dmnaanvgwn nstfa
```

SEQ ID NO. 19

NM_002415 - Homo Sapiens
Homo sapiens macrophage migration inhibitory factor
(glycosylation-inhibiting factor) (MIF), mRNA

```
   1 accacagtgg tgtccgagaa gtcaggcacg tagctcagcg gcggccgcgg cgcgtgcgtc
  61 tgtgcctctg cgcgggtctc ctggtccttc tgccatcatg ccgatgttca tcgtaaacac
 121 caacgtgccc cgcgcctccg tgccggacgg gttcctctcc gagctcaccc agcagctggc
 181 gcaggccacc ggcaagcccc cccagtacat cgcggtgcac gtggtcccgg accagctcat
 241 ggccttcggc ggctccagcg agccgtgcgc gctctgcagc ctgcacagca tcggcaagat
 301 cggcggcgcg cagaaccgct cctacagcaa gctgctgtgc ggcctgctgg ccgagcgcct
 361 gcgcatcagc ccggacaggg tctacatcaa ctattacgac atgaacgcgg ccaatgtggg
 421 ctggaacaac tccaccttcg cctaagagcc gcagggaccc acgctgtctg cgctggctcc
 481 acccgggaac ccgccgcacg ctgtgttcta ggcccgccca ccccaacctt ctggtgggga
 541 gaaataaacg gtttagagac t
```

SEQ ID NO. 20

L19686
Homo sapiens macrophage migration inhibitory factor (MIF) gene,
complete cds

```
    1 ctgcaggaac caatacccat aggctatttg tataaatggg ccatggggcc tcccagctgg
   61 aggctggctg gtgccacgag ggtcccacag gcatgggtgt ccttcctata tcacatggcc
  121 ttcactgaga ctggtatatg gattgcacct atcagagacc aaggacagga cctccctgga
  181 aatctctgag gacctggcct gtgatccagt tgctgccttg tcctcttcct gctatgtcat
  241 ggcttatctt ctttcaccca ttcattcatt cattcattca ttcagcagta ttagtcaatg
  301 tctcttgata tgcctggcac ctgctagatg gtccccgagt ttaccattag tggaaaagac
  361 atttaagaaa ttcaccaagg gctctatgag aggccataca cggtggacct gactagggtg
  421 tggcttccct gaggagctga agttgcccag aggcccagag aaggggagct gagcacgttt
  481 gaaccactga acctgctctg gacctcgcct ccttccttcg gtgcctccca gcatcctatc
  541 ctctttaaag agcaggggtt cagggaagtt ccctggatgg tgattcgcag gggcagctcc
  601 cctctcacct gccgcatgac taccccgccc catctcaaac acacaagctc acgcatgcgg
  661 gactggagcc cttgaggaca tgtggcccaa agacaggagg tacaggggct cagtgcgtgc
  721 agtggaatga ctgggcttc atctctggaa gggtaagggg ccatcttccg ggttcaccgc
  781 cgcatcccca cccccggcac agcgcctcct ggcgactaac atcggtgact tagtgaaagg
  841 actaagaaag acccgaggcg aggccggaac aggccgattt ctagccgcca agtggagaac
  901 aggttggagc ggtgcgccgg gcttagcggc ggttgctgga ggaacgggcg gagtcgccca
  961 gggtcctgcc ctgcgggggt cgagccgagg caggcggtga cttccccact cggggcggag
 1021 ccgcagcctc gcggggcggg ggcctggcgc cggcggtggc gtcacaaaag gcgggaccac
 1081 agtggtgtcc gagaagtcag gcacgtagct cagcggcggc cgcggcgcgt gcgtctgtgc
 1141 ctctgcgcgg gtctcctggt ccttctgcca tcatgccgat gttcatcgta aacaccaacg
 1201 tgccccgcgc ctccgtgccg gacgggttcc tctccgagct cacccagcag ctggcgcagg
 1261 ccaccggcaa gcccccccag gtttgccggg aggggacagg aagaggggg tgcccaccgg
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 1381 cggggggagg acggtggctc gggcccgaag tggacgttcg gggcccgacg aggtcgctgg
 1441 ggcgggctga ccgcgccctt tcctcgcagt acatcgcggt gcacgtggtc ccggaccagc
 1501 tcatggcctt cggcggctcc agcgagccgt gcgcgctctg cagcctgcac agcatcggca
 1561 agatcggcgg cgcgcagaac cgctcctaca gcaagctgct gtgcggcctg ctggccgagc
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 1681 cgcgcggcca ggcccgggac tgagccaccc gctgagtccg gcctcctccc ccgcagggt
 1741 ctacatcaac tattacgaca tgaacgcggc caatgtgggc tggaacaact ccaccttcgc
 1801 ctaagagccg cagggaccca cgctgtctgc gctggctcca cccgggaacc gccgcacgc
 1861 tgtgttctag gcccgcccac cccaaccttc tggtggggag aaataaacgg tttagagact
 1921 aggagtgcct cggggttcct tggcttgcgg gaggaattgg tgcagagccg ggacattggg
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- 12 -

```
1981 gagcgaggtc gggaaacggt gttgggggcg ggggtcaggg ccgggttgct ctcctcgaac
2041 ctgctgttcg ggagcccttt tgtccagcct gtccctccta cgctcctaac agaggagccc
2101 cagtgtcttt ccattctatg gcgtacgaag ggatgaggag aagttggcac tctgccctgg
2161 gctgcag
```

SEQ ID NO. 21

P31949

Calgizzarin - Homo sapiens

```
  1 makissptet erciesliav fqkyagkdgy nytlsktefl sfmntelaaf tknqkdpgvl
 61 drmmkkldtn sdgqldfsef lnligglama chdsflkavp sqkrt
```

SEQ ID NO. 22

NM_005620 and D38583 - Homo sapiens
Homo sapiens S100 calcium binding protein A11 (calgizzarin)(S100A11),
mRNA

```
  1 gggcaaggct gggccgggaa gggcgtgggt tgaggagagg ctccagaccc gcacgccgcg
 61 cgcacagagc tctcagcgcc gctcccagcc acagcctccc gcgcctcgct cagctccaac
121 atggcaaaaa tctccagccc tacagagact gagcggtgca tcgagtccct gattgctgtc
181 ttccagaagt atgctggaaa ggatggttat aactacactc tctccaagac agagttccta
241 agcttcatga atacagaact agctgccttc acaaagaacc agaaggaccc tggtgtcctt
301 gaccgcatga tgaagaaact ggacaccaac agtgatggtc agctagattt ctcagaattt
361 cttaatctga ttggtggcct agctatggct tgccatgact ccttcctcaa ggctgtccct
421 tccagaagc ggacctgagg accccttggc cctggccttc aaacccaccc cctttccttc
481 cagcctttct gtcatcatct ccacagccca cccatcccct gagcacacta accacctcat
541 gcaggcccca cctgccaata gtaataaagc aatgtcactt ttttaaaaca tgaaa
```

SEQ ID NO. 23

P00938 and NP_000356 - Homo sapiens
Triosephosphate isomerase

```
  1 mapsrkffvg gnwkmngrkq slgeligtln aakvpadtev vcapptayid farqkldpki
 61 avaaqncykv tngaftgeis pgmikdcgat wvvlghserr hvfgesdeli gqkvahalae
121 glgviacige kldereagit ekvvfeqtkv iadnvkdwsk vvlayepvwa igtgktatpq
181 qaqevheklr gwlksnvsda vaqstriiyg gsvtgatcke lasqpdvdgf lvggaslkpe
241 fvdiinakq
```

SEQ ID NO. 24

NM_000365
Homo sapiens triosephosphate isomerase 1 (TPI1), mRNA

```
  1 ccttcagcgc ctcggctcca gcgccatggc gccctccagg aagttcttcg ttgggggaaa
 61 ctggaagatg aacgggcgga agcagagtct gggggagctc atcggcactc tgaacgcggc
121 caaggtgccg gccgacaccg aggtggtttg tgctcccccc actgcctata tcgacttcgc
181 ccggcagaag ctagatccca agattgctgt ggctgcgcag aactgctaca aagtgactaa
241 tggggctttt actggggaga tcagccctgg catgatcaaa gactgcggag ccacgtgggt
```

- 13 -

```
  301 ggtcctgggg cactcagaga gaaggcatgt ctttggggag tcagatgagc tgattgggca
  361 gaaagtggcc catgctctgg cagagggact cggagtaatc gcctgcattg gggagaagct
  421 agatgaaagg gaagctggca tcactgagaa ggttgttttc gagcagacaa aggtcatcgc
  481 agataacgtg aaggactgga gcaaggtcgt cctggcctat gagcctgtgt gggccattgg
  541 tactggcaag actgcaacac cccaacaggc ccaggaagta cacgagaagc tccgaggatg
  601 gctgaagtcc aacgtctctg atgcggtggc tcagagcacc cgtatcattt atggaggctc
  661 tgtgactggg gcaacctgca aggagctggc cagccagcct gatgtggatg gcttccttgt
  721 gggtggtgct tccctcaagc ccgaattcgt ggacatcatc aatgccaaac aatgagcccc
  781 atccatcttc cctacccttc ctgccaagcc agggactaag cagcccagaa gcccagtaac
  841 tgccctttcc ctgcatatgc ttctgatggt gtcatctgct ccttcctgtg gcctcatcca
  901 aactgtatct tcctttactg tttatatctt caccctgtaa tggttgggac caggccaatc
  961 ccttctccac ttactataat ggttggaact aaacgtcacc aaggtggctt ctccttggct
 1021 gagagatgga aggcgtggtg ggatttgctc ctgggttccc taggccctag tgagggcaga
 1081 agagaaacca tcctctccct tcttacaccg tgaggccaag atcccctcag aaggcaggag
 1141 tgctgccctc tcccatggtg cccgtgcctc tgtgctgtgt atgtgaacca cccatgtgag
 1201 ggaataaacc tggcactagg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa
```

SEQ ID NO. 25

X69723
H.sapiens TPI1 gene for triosephosphate isomerase.

```
    1 ctgcagttcc tgccaggcct tgccagccgg ggcgagggtt gggatgatcc tggcggccta
   61 tgcctgtgtg ggctgcccct cccgctgtga accctgcatt tgtcccgcaa gttttcactc
  121 aggtagactc cctgggtaca agggtgcctg ctcagcagtc gggcatgagc tgctccgatg
  181 ggcgaaggag gttgtctatt ccacagttgg agaggggccc tctctgcccc agtgggcgat
  241 ctgggctacg gccaagttgc caccagctag ttccgcttga aaaccacttc tggccccgtg
  301 ggggactcaa gtcgccaagc gagggttccc ctgagcgccg gagctcacag gtctcgcctt
  361 gtcccgaaag ccccgcaatc gaggcggagg cgaccgagcc cccgactctc ctagaacgtt
  421 gccacaagaa gggggaacgt cggaacagtg catcatcggg cggcggccgg ggcggcggca
  481 ggaggcgggg cggggggcag ggctccgggg gactgggcgg gccatggcgg aggacggcga
  541 ggaggcggag ttccacttcg cggcgctcta tataagtggg cagtggccgc gactgcgcgc
  601 agacactgac cttcagcgcc tcggctccag cgccatggcg ccctccagga agttcttcgt
  661 tgggggaaac tggaagatga cgggcggaa gcagagtctg ggggagctca tcggcactct
  721 gaacgcggcc aaggtgccgg ccgacaccgg taagccctcg ccgaggaggg gtctggccgg
  781 gccgggggcg ggccggggca ggagtggcag cgcctctccc gaggcccgag gtccgggccg
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  901 cctcgcagcc gcagccccgt cggtcgcgtcg aggggggcagg gcggagcaca tgatgcccct
  961 tggactacgg ggcaggtaag gacgttttgg gtctcctgga ggaaggcggc cccggggcgc
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 1141 ccgcacgtag ccccagactc ctccccctcc tcgccggcgt cgtcccgcgc cgagctgctg
 1201 ctgccctgag cccccagatc tgaacccctt cccttcggca acctgagcga ctcccgcctt
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 1321 ctaccgcttt ccccaacctg gaaacagcaa agcgcaaggc ctctgagtca gttaggtctc
 1381 tgccaccaca gggcaaagga tgctctcctc catcctcctt cctccctcca ccgaaatcgg
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 1741 gacccagcct tgggctggaa aatgacaaa ggtcatcttg ctggggtgaa aaggggggaga
 1801 gcagaaccaa gaagaagagg gtgagggctg ggggctcca gggcactggt taggaattgt
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- 14 -

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1921  gtttgtgctc  cccctactgc  ctatatcgac  ttcgcccggc  agaagctaga  tcccaagatt
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2101  agccacaggg  tgggctccct  gctgaacctt  ggcttcatct  cttcctttag  ccctggcatg
2161  atcaaagact  gcggagccac  gtgggtggtc  ctggggcact  cagagagaag  gcatgtcttt
2221  ggggagtcag  atgaggttag  tagccaagag  agaagataag  ggatgtcttt  ttccaagaag
2281  gatgtctcac  caagtctgtt  tctcaacagc  tgattgggca  gaaagtggcc  catgctctgg
2341  cagagggact  cggagtaatc  gcctgcattg  gggagaagct  agatgaaagg  gaagctggca
2401  tcactgagaa  ggttgttttc  gagcagacaa  aggtcatcgc  aggtatctct  ggagaaaggg
2461  acctttgagc  ctatccaggg  ccacagagac  tcagagggta  gggtcaggcc  ctggagcctg
2521  tcttggtccc  catgctgatc  cagaaaagga  aaaaggggag  ggggagtgac  aatctttgct
2581  tggggcctat  gacttctcca  gccccaaggt  agatgccacc  tggaaatccc  ccaatgtcca
2641  ctagggggca  gtaggccacc  gttcttcgta  ctccggagaa  cctggctgga  gagctctttc
2701  ttgttcaccc  ttccctccat  ctgtatctct  gccctgcaga  taacgtgaag  gactggagca
2761  aggtcgtcct  ggcctatgag  cctgtgtggg  ccattggtac  tggcaagact  gcaacacccc
2821  aacaggtaac  cgggcccagg  agccctgccc  tcatcccagc  ctgcctcaat  aggtttggac
2881  agacacagcc  cacatggagc  aaccccttat  ttcaaagaca  cagagacctt  gaacccagag
2941  acagtgactt  gtccaagggc  atccagtcca  gggcctggct  tggatcagag  ccctggtact
3001  ctgactcagt  cagaaaccac  actaagtgtc  cactggtgcc  agtgattttt  cctcttagag
3061  aggcagaaaa  ggtcttactt  aggccagctt  cttgttctag  gcccaggaag  tacacgagaa
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3241  gccctcggac  atggaggtgg  ggatggggca  gactcatccc  attcttgacc  aagcccttgt
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3361  gatgtggatg  gcttccttgt  gggtggtgct  tccctcaagc  ccgaattcgt  ggacatcatc
3421  aatgccaaac  aatgagcccc  atccatcttc  cctacccttc  ctgccaagcc  agggactaag
3481  cagcccagaa  gcccagtaac  tgccctttcc  ctgcatatgc  ttctgatggt  gtcatctgct
3541  ccttcctgtg  gcctcatcca  aactgtatct  tcctttactg  tttatatctt  caccctgtaa
3601  tggttgggac  caggccaatc  ccttctccac  ttactataat  ggttggaact  aaacgtcacc
3661  aaggtggctt  ctccttggct  gagagatgga  aggcgtggtg  ggatttgctc  ctgggttccc
3721  taggccctag  tgagggcaga  agagaaacca  tcctctccct  tcttacaccg  tgaggccaag
3781  atcccctcag  aaggcaggag  tgctgccctc  tcccatggtg  cccgtgcctc  tgtgctgtgt
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4141  tcaccagctt  tcagcagctg  gtctaggcca  gcagtgcctc  cccacctccc  caagggaggg
4201  tggtggcaag  acctcagcac  agtctgtggt  atcacaggct  cactggtaga  gcagtagcgc
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4321  gcacacacag  gcggctcagg  tgcagaaggg  agtgtggctc  cgctgggaga  gagaaggagg
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4501  acccggaagt  tctgcctccc  agataagatt  tcacacatcc  ctagtcagag  ctggggtga
4561  agagctggct  aaggccctct  aaacaacagg  ccaaggtggc  tctgacagtg  gtggagctgg
4621  cccaggcttt  gactccagag  gcttgggagc  tggggctgag  gtgaggaggg  atggccctcc
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4741  ggggaggctc  ctcccctgct  gccccaccct  aaggcctgcc  tcctccactg  ctctcctcct
4801  ccctggtgcc  cagggcccca  gtgtctccat  cctgaggtgt  ggctgaggaa  ggaagtaggt
4861  atgtggcaca  gagacaggtt  agagcccagg  gaatccggta  tacagcctgg  gtacctcgtc
4921  tgcccatcct  tcttttggac  ctgtacatca  aacccagtac  ctaaccgttt  gcacctcttg
4981  cctaggggtg  attactcctg  aattc
```

SEQ ID NO. 26

- 15 -

Q05586   - Homo sapiens
Glutamate [NMDA] receptor subunit zeta 1 precursor

```
5    MSTMRLLTLA LLFSCSVARA ACDPKIVNIG AVLSTRKHEQ MFREAVNQAN KRHGSWKIQL
     NATSVTHKPN AIQMALSVCE DLISSQVYAI LVSHPPTPND HFTPTPVSYT AGFYRIPVLG
     LTTRMSIYSD KSIHLSFLRT VPPYSHQSSV WFEMMRVYSW NHIILLVSDD HEGRAAQKRL
     ETLLEERESK AEKVLQFDPG TKNVTALLME AKELEARVII LSASEDDAAT VYRAAAMLNM
     TGSGYVWLVG EREISGNALR YAPDGILGLQ LINGKNESAH ISDAVGVVAQ AVHELLEKEN
10   ITDPPRGCVG NTNIWKTGPL FKRVLMSSKY ADGVTGRVEF NEDGDRKFAN YSIMNLQNRK
     LVQVGIYNGT HVIPNDRKII WPGGETEKPR GYQMSTRLKI VTIHQEPFVY VKPTLSDGTC
     KEEFTVNGDP VKKVICTGPN DTSPGSPRHT VPQCCYGFCI DLLIKLARTM NFTYEVHLVA
     DGKFGTQERV NNSNKKEWNG MMGELLSGQA DMIVAPLTIN NERAQYIEFS KPFKYQGLTI
     LVKKEIPRST LDSFMQPFQS TLWLLVGLSV HVVAVMLYLL DRFSPFGRFK VNSEEEEEDA
15   LTLSSAMWFS WGVLLNSGIG EGAPRSFSAR ILGMVWAGFA MIIVASYTAN LAAFLVLDRP
     EERITGINDP RLRNPSDKFI YATVKQSSVD IYFRRQVELS TMYRHMEKHN YESAAEAIQA
     VRDNKLHAFI WDSAVLEFEA SQKCDLVTTG ELFFRSGFGI GMRKDSPWKQ NVSLSILKSH
     ENGFMEDLDK TWVRYQECDS RSNAPATLTF ENMAGVFMLV AGGIVAGIFL IFIEIAYKRH
     KDARRKQMQL AFAAVNVWRK NLQDRKSGRA EPDPKKKATF RAITSTLASS FKRRRSSKDT
20   STGGGRGALQ NQKDTVLPRR AIEREEGQLQ LCSRHRES
```

SEQ ID NO. 27

```
25   D13515
     Homo sapiens mRNA for key subunit of N-methyl-D-aspartate receptor,
     complete cds
```

```
        1 gcttcagcgc ccctcccctc ggccgacgtc ccgggaccgc cgctccgggg gagacgtggc
30     61 gtccgcagcc cgcggggccg ggcgagcgca ggacggcccg gaagcccgc gggggatgcg
      121 ccgagggccc cgcgttcgcg ccgcgcagag ccaggcccgc ggcccgagcc catgagcacc
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      301 gaggccgtga accaggccaa caagcggcac ggctcctgga agattcagct caatgccacc
35    361 tccgtcacgc acaagcccaa cgccatccag atggctctgt cggtgtgcga ggacctcatc
      421 tccagccagg tctacgccat cctagttagc catccaccta cccccaacga ccacttcact
      481 cccacccctg tctcctacac agccggcttc taccgcatac cgtgctgggg gctgaccacc
      541 cgcatgtcca tctactcgga caagagcatc cacctgagct cctgcgcac cgtgccgccc
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40    661 atcctgctgg tcagcgacga ccacgagggc cgggcggctc agaaacgcct ggagacgctg
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45    961 gacggcatcc tcgggctgca gctcatcaac ggcaagaacg agtcggccca tcagcgacac
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55   1561 atcaagctgg cacggaccat gaacttcacc tacgaggtgc acctggtggc agatggcaag
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- 16 -

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1621 ttcggcacac aggagcgggt gaacaacagc aacaagaagg agtggaatgg gatgatgggc
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1741 gcgcagtaca tcgagttttc caagcccttc aagtaccagg gcctgactat tctggtcaag
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1921 agccccttcg ccggttcaa ggtgaacagc gaggaggagg aggaggacgc actgaccctg
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2101 gtggcctcct acaccgccaa cctggcggcc ttcctggtgc tggaccggcc ggaggagcgc
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SEQ ID NO. 28

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SEQ ID NO. 29

ITMLCTGSRTLK

SEQ ID NO. 30

ITHU and P01009 - Homo sapiens
α-1-antitrypsin precursor

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SEQ ID NO. 31

NM_000295

- 17 -

Homo sapiens serine (or cysteine) proteinase inhibitor, clade A(alpha-1
antiproteinase, antitrypsin), member 1 (SERPINA1),transcript variant 1,
mRNA

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SEQ ID NO. 32

K02212
Human alpha-1-antitrypsin gene (S variant), complete cds

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- 20 -

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      9601 ctgatgaggg gaaactacag cacctggtaa atgaactcac ccacgatatc atcaccaagt
  35  9661 tcctggaaaa tgaagacaga aggtgattcc ccaacctgag ggtgaccaag aagctgccca
      9721 cacctcttag ccatgttggg actgaggccc atcaggactg gccagagggc tgaggagggt
      9781 gaaccccaca tccctgggtc actgctactc tgtataaact tggcttccag aatgaggcca
      9841 ccactgagtt caggcagcgc cgtccatgct ccatgaggag aacagtaccc agggtgagga
      9901 ggtaaaggtc tcgtccctgg gaacttccca ctccagtgtg gacactgtcc cttcccaata
  40  9961 tccagtgccc aaggcaggga cagcagcacc accacacgtt ctggcagaac caaaaaggaa
     10021 cagatgggct tcctggcaaa ggcagcagtg gagtgtggag ttcaagggta gaatgtccct
     10081 gggggggacgg gggaagagcc tgtgtggcaa ggcccagaaa agcaaggttc ggaattggaa
     10141 cagccaggcc atgttcgcag aaggcttgcg tttctctgtc actttatcgg tgctgttaga
     10201 ttgggtgtcc tgtagtaagt gatacttaaa catgagccac acattagtgt atgtgtgtgc
  45 10261 attcgtgatt atgcccatgc cctgctgatc tagttcgttt tgtacactgt aaaaccaaga
     10321 tgaaaataca aaggtgtcg ggttcataat aggaatcgag gctggaattt ctctgttcca
     10381 tgccagcacc tcctgaggtc tctgctccag gggttgagaa agaacaaaga ggctgagagg
     10441 gtaacggatc agagagccca gagccagctg ccgctcacac cagaccctgc tcagggtggc
     10501 attgtctccc catggaaaac cagagaggag cactcagcct ggtgtggtca ctcttctctt
  50 10561 atccactaaa cggttgtcac tgggcactgc caccagcccc gtgtttctct gggtgtaggg
     10621 ccctggggat gttacaggct ggggccagg tgacccaaca ctacagggca agatgagaca
     10681 ggcttccagg acacctagaa tatcagagga ggtggcattt caagcttttg tgattcattc
     10741 gatgttaaca ttctttgact caatgtagaa gagctaaaag tagaacaaac caaagccgag
     10801 ttcccatctt agtgtgggtg gaggacacag gagtaagtgg cagaaataat cagaaaagaa
  55 10861 aacacttgca ctgtggtggg tcccagaaga acaagaggaa tgctgtgcca tgccttgaat
```

- 21 -

```
10921 ttctttctg cacgacaggt ctgccagctt acatttaccc aaactgtcca ttactggaac
10981 ctatgatctg aagagcgtcc tgggtcaact gggcatcact aaggtcttca gcaatggggc
11041 tgacctctcc ggggtcacag aggaggcacc cctgaagctc tccaaggtga gatcaccctg
11101 acgaccttgt tgcaccatgg tatctgtagg gaagaatgtg tgggggctgc agcactgtcc
11161 tgaggctgag gaaggggccg agggaaacaa atgaagaccc aggctgagct cctgaagatg
11221 cccgtgattc actgacacgg gacggtgggc aaacagcaaa gccaggcagg ggctgctgtg
11281 cagctggcac tttcggggcc tcccttgagg ttgtgtcact gaccctgaat ttcaactttg
11341 cccaagacct tctagacatt ggccttgat ttatccatac tgacacagaa aggtttgggc
11401 taagttgttt caaaggaatt tctgactcct tcgatctgtg agatttggtg tctgaattaa
11461 tgaatgattt cagctaaagt gacacttatt ttggaaaact aaaggcgacc aatgaacaac
11521 ctgcagttcc atgaatggct gcattatctt ggggtctggg cactgtgaag gtcactgcca
11581 gggtccgtgt cctcaaggag cttcaagccg tgtactagaa aggagagagc cctggaggca
11641 gacgtggagt gacgatgctc ttccctgttc tgagttgtgg gtgcacctga gcaggggag
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11761 ggagcaaggc ctatgtgaca gggagggaga ggatgtgcag ggccagggcc gtccaggggg
11821 agtgagcgct tcctgggagg tgtccacgtg agccttgctc gaggcctggg atcagcctta
11881 caacgtgtct ctgcttctct cccctccagg ccgtgcataa ggctgtgctg accatcgacg
11941 agaaagggac tgaagctgct ggggccatgt ttttagaggc catacccatg tctatccccc
12001 ccgaggtcaa gttcaacaaa ccctttgtct tcttaatgat tgaacaaaat accaagtctc
12061 ccctcttcat gggaaaagtg gtgaatccca cccaaaaata actgcctctc gctcctcaac
12121 ccctcccctc catccctggc cccctccctg gatgacatta aagaagggtt gagctggtcc
12181 ctgcctgcat gtgatctgta aatccctggg atgttttctc tg
```

SEQ ID NO. 33

gi/125294, P12277 - Homo sapiens
Creatine kinase, B chain (B-CK)

```
mpfsnshnal klrfpaedef pdlsahnnhm akvltpelya elrakstpsg ftlddviqtg
vdnpghpyim tvgcvagdee syevfkdlfd piiedrhggy kpsdehktdl npdnlqggdd
ldpnyvlssr vrtgrsirgf clpphcsrge rraieklave alssldgdla gryyalksmt
eaeqqqlidd hflfdkpvsp lllasgmard wpdargiwhn dnktflvwvn eedhlrvism
qkggnmkevf trfctgltqi etlfkskdye fmwnphlgyi ltcpsnlgtg lragvhiklp
nlgkhekfse vlkrlrlqkr gtggvdtaav ggvfdvsnad rlgfsevelv qmvvdgvkll
iemeqrleqg qaiddlmpaq k
```

SEQ ID NO. 34

NM_001823 Homo sapiens creatine kinase, brain (CKB), mRNA
Creatine kinase, B chain (B-CK)

```
    1 gctgttcgcc tgcgtcgctc cgggagctgc cgacggacgg agcgcccccg cccccgcccg
   61 gccgcccgcc cgccgccgcc atgcccttct ccaacagcca caacgcactg aagctgcgct
  121 tcccggccga ggacgagttc cccgacctga cgcccacaa caaccacatg gccaaggtgc
  181 tgacccccga gctgtacgcg gagctgcgcg ccaagagcac gccgagcggc ttcacgctgg
  241 acgacgtcat ccagacaggc gtggacaacc cgggccaccc gtacatcatg accgtgggct
  301 gcgtggcggg cgacgaggag tcctacgaag tgttcaagga tctcttcgac cccatcatcg
  361 aggaccggca cggcggctac aagcccagcg atgagcacaa gaccgacctc aaccccgaca
  421 acctgcaggg cggcgacgac ctggacccca actacgtgct gagctcgcgg gtgcgcacgg
  481 gccgcagcat ccgtggcttc tgcctccccc gcactgcag ccgcggggag cgccgcgcca
  541 tcgagaagct cgcggtggaa gccctgtcca gcctggacgg cgacctggcg ggcgatact
  601 acgcgctcaa gagcatgacg gaggcggagc agcagcagct catcgacgac cacttcctct
  661 tcgacaagcc cgtgtcgccc ctgctgctgg cctcgggcat ggcccgcgac tggcccgacg
```

SUBSTITUTE SHEET (RULE 26)

```
       721 cccgcggtat ctggcacaat gacaataaga ccttcctggt gtgggtcaac gaggaggacc
       781 acctgcgggt catctccatg cagaaggggg gcaacatgaa ggaggtgttc acccgcttct
       841 gcaccggcct cacccagatt gaaactctct tcaagtctaa ggactatgag ttcatgtgga
       901 accctcacct gggctacatc ctcacctgcc catccaacct gggcaccggg ctgcgggcag
       961 gtgtgcatat caagctgccc aacctgggca agcatgagaa gttctcggag gtgcttaagc
      1021 ggctgcgact tcagaagcga ggcacaggcg gtgtggacac ggctgcggtg ggcgggggtct
      1081 tcgacgtctc caacgctgac cgcctgggct tctcagaggt ggagctggtg cagatggtgg
      1141 tggacggagt gaagctgctc atcgagatgg agcagcggct ggagcagggc caggccatcg
      1201 acgacctcat gcctgcccag aaatgaagcc cggcccacac ccgacaccag ccctgctgct
      1261 tcctaactta ttgcctgggc agtgcccacc atgcacccct gatgttcgcc gtctggcgag
      1321 cccttagcct tgctgtagag acttccgtca cccttggtag agtttatttt tttgatggct
      1381 aagatactgc tgatgctgaa ataaactagg gttttggcct gcctgcgtct g
```

SEQ ID NO. 35

X15334
Human gene for creatine kinase B (EC 2.7.3.2).

```
         1 gatcagtttt ttttttttaat cgcacttatg cttattgttt attagcgttt cctcccatct
        61 ttgcctgaag tctccgggga ctgcctttgg gggtcgggta aacttgtccc ctgcgaagag
       121 ggcccagggt tggggtctgg aaactccgag gctgcacttg ccagcggcct cttaaggcca
       181 cagcgtcccc gtggtttctg gctcgcagcc ccccgagacc caggacttgt ccaaggtcag
       241 ggcaccgcgg gtgcccccgg ctgggccgc agcagactgc gcttcccgcg cgccttcgct
       301 ttgcaccagg atcgcccagg aaatgcctgc gggcaccttg aggaaggtcg gcggctccgg
       361 gccagctcgc actggccggg gtggggcggg gccgtacct gctgcggaag ccccgaaagc
       421 tttcgcccgg ccctcgccg ccgccgcggg ggctggctgg actaggcggg caggctcgag
       481 gatgcggatg aacccaagcg tcctcgagtg cccggaggct ctccgcctca gtttcccgcc
       541 cagaggcaag ggcgtgcgag gggatccaga tatccaagga cctgaggttt cggcctcgag
       601 gtcttgggcg ggggactggg caggctgcgc ggggtcccag cgaggggaca gctcgggtgg
       661 gcggccaggg tgttgggggc tgcgggcggc ggacaaagcg gcggcaccac cccgcggcgc
       721 gggccaatgg aatgaatggg ctataaatag ccgccaatgg gcggcccgcg ttgtgcccct
       781 taagagccgc gggagcgcgg agcggccgct gttcgcctgc gtcgctccgg gagctgccga
       841 cggacggagc gcccccgccc ccgcccggcc gcccggtgag tgggcccggg ggccgggggc
       901 gtccgcgccc gggctagggg cgctgcgagc aaaggggggcg cgtcgcctgg agcgcgcgcc
       961 ggaccggccg ggggtccccg gcgatgatgg cgctcccccgc gcgcgctgcg gaccccgctg
      1021 accttggccg cgtcccgggg ggcgccgggg ggcccggcgg cggggggcctg agtggtacgc
      1081 gggagcccgg gaaccccggc gtgccggtcc cctctgaccc cgcgtctccc cgcagcccgc
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      1201 cgagttcccc gacctgagcg cccacaacaa ccacatggcc aaggtgctga cccccgagct
      1261 gtacgcggag ctgcgcgcca agagcacgcc gagcggcttc acgctggacg acgtcatcca
      1321 gacaggcgtg gacaacccgg gtacgcgacc cctcggggcc ggggtcccgg ccccccctcc
      1381 ccccgcgcag ccgcagggtc ctcagcagcg cgctcgggcc cggcagtgac gtcactgtcc
      1441 ccgtcccgcg ccccctcccc caggccaccc gtacatcatg accgtgggct gcgtggcggg
      1501 cgacgaggag tcctacgaag tgttcaagga tctcttcgac cccatcatcg aggaccggca
      1561 cggcggctac aagcccagcg atgagcacaa gaccgacctc aaccccgaca acctgcaggt
      1621 gcggggctgc gggcggcccg gcgggcgggg ccggggtct tcgggcgctc actcccgtct
      1681 cgcctcccag ggcggcgacg acctggaccc caactacgtg ctgagctcgc gggtgcgcac
      1741 gggccgcagc atccgtggct ctgcctccc ccgcactgc agccgcgggg agcgccgagc
      1801 catcgagaag ctcgcggtgg aaggtagggg ccgggcgggc cgaggggcgg cggcggccgc
      1861 gtccccctcc cggcgcggtc cccgcccgct tttgtttacg tcgcccggga gcggcagccg
      1921 ccgtcgcgct cttatctgcg cgcgcccggg ttcagtttcc cggacccacc gagggacgga
      1981 ggcccagccc ccgcgcccac agcggcctgg gcccaggga gggcgggtcc tggcgcgggg
      2041 tcaccgcctg ggaccgtcgc ccgggccgtg aggactggac gcccgcagat ccgggcgggt
      2101 ggggccctct gacgtccccc gaggtggggc acggggggcgg gcgggtccgc gctgcgggct
```

```
2161 ggaggggcgg gcgcgggagc ccagcgtcct gagcgcaccc ctcgcagccc tgtccagcct
2221 ggacggcgac ctggcgggcc gatactacgc gctcaagagc atgacggagg cggagcagca
2281 gcagctcatc gacgaccact tcctcttcga caagcccgtg tcgcccctgc tgctggcctc
2341 gggcatggcc cgcgactggc ccgacgcccg cggtatctgg tgcgtgtccc tctgcgccct
2401 ctcgcggcgt cctccctccc cgctacctcc gctttccctc tcgcccccct cgcggggggtg
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2581 gactgggccc cggccgtgg gggctcagga ctcagcaaca cctccccacc ccgagacgtg
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2701 ttttcttttc tcactcctcc gccgctggga ttctaccagg ggctggtgac gccaaagctt
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2881 ggcgtcccgg ttcccccgcc cgccccgtgt tggcgggtgg agtcttggca gcagcctcca
2941 ctcctgggca tggcagggag cagcacctca gggacttggg aagttccttt ggtctggggg
3001 cggcctgggg cttttttctg ggtatgccct gagaccagcc ctcccgcagg cacaatgaca
3061 ataagacctt cctggtgtgg gtcaacgagg aggaccacct gcgggtcatc tccatgcaga
3121 aggggggcaa catgaaggag gtgttcaccc gcttctgcac cggcctcacc caggtgccag
3181 ggacggggca ggcccagacc ccagggcccc agcagggatg tgggtgcccc agcatcagtc
3241 ccccggggg atttccggca ctggggagtc tcagggcctg taggggtttc aggcaggcct
3301 tctccctcat accctcttct ccgtctgcag attgaaactc tcttcaagtc taaggactat
3361 gagttcatgt ggaaccctca cctgggctac atcctcacct gcccatccaa cctgggcacc
3421 gggctgcggg caggtgtgca tatcaagctg cccaacctgg gcaagcatga gaagttctcg
3481 gaggtgctta agcggctgcg acttcagaag cgaggcacag gtgagcaggg caggtgctgc
3541 ggcttcccgt ggcctttggg cagccctgtt tcctccgccc tgacttgctg tctccccagg
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3721 ggaacagcgg ctggagcagg gccaggccat cgacgacctc atgcctgccc agaaatgaag
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3841 ccatgcaccc ctgatgttcg ccgtctggcg agcccttagc cttgctgtag agacttccgt
3901 cacccttggt agagtttatt ttttttgatgg ctaagatact gctgatgctg aaataaacta
3961 gggttttggc ctgcctgcgt ctgagtggtg cctctccttt cccaggggggg aggggggaagg
4021 gcagcagcca ggccccagga gtcttgagtc ctgggcctgc tgtgggcctc gccttctgtg
4081 agatgggaca agagccagga ggtggccact ctgttctgcc tgccctacct agtccatggg
4141 cccttccct cgtgtctatc gggctgtgca ggcaggaaca tgggagagag cgagggagga
```

SEQ ID NO. 36

P14618 - Homo sapiens
Pyruvate kinase M1 or M2 isozyme

```
mskphseagt afiqtqqlha amadtflehm crldidsppi tarntgiict igpasrsvet
lkemiksgmn varlnfshgt heyhaetikn vrtatesfas dpilyrpvav aldtkgpeir
tglikgsgta evelkkgatl kitldnayme kcdenilwld yknickvvev gskiyvddgl
islqvkqkga dflvteveng gslgskkgvn lpgaavdlpa vsekdiqdlk fgveqdvdmv
fasfirkasd vhevrkvlge kgknikiisk ienhegvrrf deileasdgi mvargdlgie
ipaekvflaq kmmigrcnra gkpvicatqm lesmikkprp traegsdvan avldgadcim
lsgetakgdy pleavrmqhl iareaeaaiy hlqlfeelrr lapitsdpte atavgaveas
fkccsgaiiv ltksgrsahq varyrprapi iavtrnpqta rqahlyrgif pvlckdpvqe
awaedvdlrv nfamnvgkar gffkkgdvvi vltgwrpgsg ftntmrvvpv p
```

SEQ ID NO. 37

X56494

- 24 -

H.sapiens M gene for M1-type and M2-type pyruvate kinase

```
      1 ggtcttcaca ttttgaatgc gcaacattgt atctgtgaat gaaggcaaga gttaacagct
     61 gtttaattga taactgctcg catcattagt tgctggctaa caactgggaa atcagaaaat
    121 gtcttgtaga aaaatgtaag aaaagttcca acaatactga cttaaacacg agcaaaggtg
    181 aaaacagaaa tgctgactcc tgcataggtt atcggcccta atgttctgac ttgatatttc
    241 cagatgccca gctctgcgct aatatcaaca ccgtctattt actttctact ctgaggcatt
    301 cgctctgcag gattccagac cctactaaat tattcacatg gccccaaccg gtccttcctt
    361 gttccgcggt cctaacacaa tgaatggtcc taagaggaaa acggcctcgg ctcccgctcc
    421 aggcccactt cgcagtccct agttctccct actgccgctc cagtgccaga gccctccga
    481 aggcggccag gacctccaac cacgcacaag tctgcagctc tccccaactt tccgttcagc
    541 tcagtctccg agggtgcgcc agagcagaca cccggaggag tggggagtgg cagggcgggg
    601 ccgggagaat gctgccccgg aacccataaa ttcggccctg cccaggtagg ccgggacagc
    661 tggggtggcc tgggccgaga gccaagaaaa gagaccccat ctggacgccc aacttggcgg
    721 caacaggtgg ccggcgcccg ggggtctggg aggaaagtcg ctccgggcgg ccccgttgc
    781 cccgccgcgt ccccattggt catcaggttt cttaaaatgt gactctgaat ctgtgtcctt
    841 ccgccgcaga atttagtccc accgaaaggg caacctgccc gcgcgttccg ccaccgccgc
    901 cgcgcttcct cctgaaggtg actcgagccc gcggggacgc aggggcgggg gcccgggtcg
    961 cccggagccg ggattgggca gagggcgggg cggcggaggg attgcggcgg cccgcagcgg
   1021 gataaccttg aggctgaggc agtggctcct tgcacagcag ctgcacgcgc cgtggctccg
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   1261 taaccacttc tcagtcttac cactctcttt caatttgtct cgacccagga cctcagcagc
   1321 catgtcgaag ccccatagtg aagccgggac tgccttcatt cagacccagc agctgcacgc
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   1681 taataggccc agcttcccga tcagtggaga cgttgaagga gatgattaag tctggaatga
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   1981 cgaactgggc tcatcaaggg cgtgagtatt ctgcggagag cgaggggaag gctcagtagg
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   2161 agccactctc aaaatcacgc tggataacgc ctacatggaa aagtgtgacg agaacatcct
   2221 gtggctggac tacaagaaca tctgcaaggt ggtggaagtg ggcagcaaga tctacgtgga
   2281 tgatgggctt atttctctcc aggtgaagca gaaaggtacg tatgggagct ggagtccagt
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   2401 ttatacaggt gccgacttcc tggtgacgga ggtggaaaat ggtggctcct gggcagcaa
   2461 gaagggtgtg aaccttcctg gggctgctgt ggacttgcct gctgtgtcgg agaaggacat
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   2581 caaggcatct gatgtccatg aagttaggaa ggtcctggga gagaagggaa agaacatcaa
   2641 gattatcagc aaaatcgaga atcatgaggg ggttcggagg caagtccccg ttgtccctgg
   2701 tctactgcca tacttgtggc ctctgttcta tataacctct ctcccccca ctttgtccat
   2761 caggtttgat gaaatcctgg aggccagtga tgggatcatg gtggctcgtg gtgatctagg
   2821 cattgagatt cctgcagaga aggtcttcct tgctcagaag atgatgattg gacggtgcaa
   2881 ccgagctggg aagcctgtca tctgtgctac tcaggcatgt gcccaccctt ccccacattc
   2941 tcatgtgcac actcgcatgt ttgtatggga aagctctgga ggctgtctga tctcttccca
   3001 tggaattgtc gcaacgtaac acacagataa tccccttccc ccatgtacct acacaaagcc
   3061 atactctgtg tacctactca ctatccagag gatcagcttg ctgtcatttg tctctgaaga
   3121 cagctcaagc tacatctcac taatgctctg tccccctccca gatgctggag agcatgatca
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- 25 -

```
3181  agaagccccc  gcccactcgg  gctgaaggca  gtgatgtggc  caatgcagtc  ctggatggag
3241  ccgactgcat  catgctgtct  ggagaaacag  ccaaagggga  ctatcctctg  gaggctgtgc
3301  gcatgcagca  cctggtgagt  tctgggcctg  ccccatcccc  cagggcttcg  gactgggcct
3361  gggatggatg  caagctctgg  tgcagagctt  tttaggtttc  tccatcctct  tatgcacagc
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3781  tgcagacagg  cgctcccgca  gggggccctt  gtggacctgc  actggagtct  gttgccttca
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```

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      6901 tccacagacc tcatggaagc catggccatg ggcagcgtgg aggcttctta taagtgttta
      6961 gcagcagctt tgatagttct dacggagtct ggcaggtagg ccctaaggg caggtaacac
      7021 tgttaggata accagcctct tgctgcacct gccccaggag aagagagaag cccaacctg
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      7321 ctctcctttt gtgacaaagc tctgacaaag ctctgtcccc ctctcgtccc tctggacgga
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    9901 ctgctctagt gggacagccc agagcctggc tgccccatca tgtggcccca cccaatcaag
    9961 ggaagaagga ggaatgctgg actggaggcc cctggagcca gatggcaaga gggtgacagc
   10021 ttcctttcct gtgtgtactc tgtccagttc ctttagaaaa aatggatgcc cagaggactc
   10081 ccaaccctgg cttggggtca agaaacagcc agcaagagtt aggggtcctt agggcactgg
   10141 gctgttgttc cattgaagcc gactctggcc ctggccctta cttgcttctc tagctctcta
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   10261 accctccacc ttccatttcc cccactactg cagcacctcc aggcctgttg ctatagagcc
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SEQ ID NO. 38

Q01995 - Homo sapiens
Transgelin

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mankgpsygm srevqskiek kydeeleerl vewiivqcgp dvgrpdrgrl gfqvwlkngv
ilsklvnsly pdgskpvkvp enppsmvfkq meqvaqflka aedygviktd mfqtvdlfeg
kdmaavqrtl malgslavtk ndghyrgdpn wfmkkaqehk reftesqlqe gkhviglqmg
snrgasqagm tgygrprqii s
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SEQ ID NO. 39

D84342

Homo sapiens DNA for SM22 alpha, complete cds

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     61 ttagcttttcc ccagacatgg ccaacaaggg tccttcctat ggcatgagcc gcgaagtgca
    121 gtccaaaatc gagaagaagt atgacgagga gctggaggag cggctggtgg agtggatcat
    181 agtgcagtgt ggccctgatg tgggccgccc agaccgtggg cgcttgggct tccaggtctg
    241 gctgaagaat ggcgtggtga gtggcaccct gggctagggc gctggggggc tggggtgtga
    301 cccctgtga gtcctgggcc aatccctgag gactgctaag ctgcgtccta tgccctatgc
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    421 ggtgcccgag aacccaccct ccatggtctt caagcagatg gagcaggtgg ctcagttcct
    481 gaaggcggct gaggactatg gggtcatcaa gactgacatg ttccagactg ttgacctctt
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    721 attggggaca actcttggcc ctggtttggc catttttttg tgagagacgg gggcaggccc
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    901 aagaatgatg ggcactaccg tggagatccc aactggttta tgaagtatgt ggcccccagg
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   1501 ccgtgtggta ccttcagccc tggccaagct ttgaggctct gtcactgagc aatggtaact
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- 28 -

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1621 cactgccttg gcccctccct cccggctgcc cccatcacct ctactgtctc ctccctgggc
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1741 tggcggcaaa agcccattga agaagaacca gcccagcctg cccccctatct tgtcctggaa
1801 tattttttggg gttggaactc tc
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SEQ ID NO. 40

Q14103 - human
Heterogeneous nuclear ribonucleoprotein

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gevvdctlkl  dpitgrsrgf  gfvlfkeses  vdkvmdqkeh  klngkvidpk  rakamktkep
vkkifvggls  pdtpeekire  yfggfgeves  ielpmdnktn  krrgfcfitf  keeepvkkim
ekkyhnvgls  kceikvamsk  eqyqqqqwg   srggfagrar  grgggpsqnw  nqgysnywnq
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SEQ ID NO. 41

AF026126
Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD)
gene, complete cds

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 121 ctagccgcta cttcgaaaca gcattccttg ttctcgatgg tccccgcgcg actgtcttag
 181 ctcacgacac ttccggttcc ttttaaaggc ccccaaggct gtgcaacgcg gagcgtgaga
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- 29 -

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1801 gtgcaaccta attttttaca acccccagcc cccttttttt cccggtgccc aggatcctat
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1981 gtattaactt gcttcctcca attgaaataa cagttgtata tactacctaa atctgcattt
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- 30 -

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SUBSTITUTE SHEET (RULE 26)

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- 32 -

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SEQ ID NO. 42

NP_852000
GSK-3 Binding Protein - FRAT1

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SEQ ID NO. 43

NM_005479
Homo sapiens frequently rearranged in advanced T-cell lymphomas
FRAT1), transcript variant 1, mRNA

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1081 ccttgagggc tgcagttcta ctcaggctgg tggagaactc tggcttttgg aagcgagagt
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2521 actgaaatgc ctgctttgaa taaatgtgtt gggttttttg tttggtttta ttttatactt
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2641 ttgaaatctc aaa
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SEQ ID NO. 44

NM_181355
Homo sapiens frequently rearranged in advanced T-cell lymphomas
FRAT1), transcript variant 2, mRNA

```
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  61 gcgtccgccc cggccccggt ccagacttag tcttcagctc cgcgcccgct ccgccgcggc
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 181 caggggccatgccgtgccg gagggaggag gaagaggaag ccggcgagga ggcggagggg
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2041 tggctatcct gattatagga ttttaactta actgaaatgc ctgctttgaa taaatgtgtt
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2161 tttctctgat ctccataaac atgaaaacac ttgaaatctc aaa
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SEQ ID NO. 45

NP_444254

myosin light chain isoform kinase 2

```
mgdvklvass  hisktslsvd  psrvdsmplt  eapafilppr  nlcikegata  kfegrvrgyp
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ltvegsfakq  lgqpvvsktl  gdrfsasave  trpsiwgecp  pkfatklgrv  vvkegqmgrf
sckitgrpqp  qvtwlkgnvp  lqpsarvsvs  ekngmqvlei  hgvnqddvgv  ytclvvngsg
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eyllpvapsk  ptapiflqgl  sdlkvmdgsq  vtmtvqvsgn  pppeviwlhn  gneiqesedf
hfeqrgtqhs  lciqevfped  tgtytceawn  sagevrtqav  ltvqephdgt  qpwfiskprs
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yfsktirdle  vvegsaarfd  ckiegypdpe  vvwfkddqsi  resrhfqidy  dedgncslii
sdvcgdddak  ytckavnslg  eatctaeliv  etmeegegeg  eeeee
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SEQ ID NO. 46

AF069601

Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA,
complete cds

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SEQ ID NO. 47

AAH07433 and P09493
tropomyosin 1 alpha chain.

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121 desergmkvi  esraqkdeek  meiqeiqlke  akhiaedadr  kyeevarklv  iiesdlerae
181 eraelsegqv  rqleeqlrim  dqtlkalmaa  edkysqkedr  yeeeikvlsd  klkeaetrae
241 faersvtkle  ksiddledel  yaqklkykai  seeldhalnd  mtsm
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SEQ ID NO. 48

NM_000366 and BC007433
Homo sapiens tropomyosin 1 (alpha), mRNA (cDNA clone), complete cds

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  1 gaggaatgcg  gtcgccccct  tgggaaagta  catatctggg  agaagcaggc  ggctccgcgc
 61 tcgcactccc  gctcctccgc  ccgaccgcgc  gctcgccccg  ccgctcctgc  tgcagcccca
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181 gacaaggaga  cgccttgga   tcgagctgag  caggcggagg  ccgacaagaa  ggcggcggaa
241 gacaggagca  agcagctgga  agatgagctg  gtgtcactgc  aaaagaaact  caagggcacc
301 gaagatgaac  tggacaaata  ttctgaggct  ctcaaagatg  cccaggagaa  gctggagctg
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- 38 -

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1021 caccctgccc tcatgctaat ataagtttct ttgcttcact tctcccaaga ctccctcgtc
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1201 ctcttcgttt cagtgtcaaa taaacactgt gtaagctaaa aaaaaaaaa aaaaaa
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SEQ ID NO. 49

EITALAPSTMK

SEQ ID NO. 50

MLTELEK

SEQ ID NO. 51

ALNSIIDVYHK

SEQ ID NO. 52

GADVWFK